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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/085,009	03/01/2002	Masahiro Fukui	60188-156	1135
7	590 07/31/2003			
Jack Q. Lever, Jr.			EXAMINER	
McDERMOTT, WILL & EMERY 600 Thirteenth Street, N.W. Washington, DC 20005-3096			HOANG, QUOC DINH	
			ART UNIT	PAPER NUMBER
			2818	

DATE MAILED: 07/31/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u></u>			
	Application No.	Applicant(s)			
Office Action Summary	10/085,009	FUKUI ET AL.			
Office Action Summary	Examiner	Art Unit			
,	Quoc D Hoang	2818			
The MAILING DATE of this communication appears n the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on 06 M	<i>∕ay 2003</i> .				
2a)☐ This action is FINAL . 2b)⊠ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3 and 5-11</u> is/are rejected.					
7) Claim(s) 4 is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>01 March 2002</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language pro	ovisional application has been re	eceived.			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)			

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DETAILED ACTION

Response to Amendment

1. Amendment filed on 5/06/2003 has been entered and made of record as Paper No. 6. Claims 12-40 have been canceled. Claims 1-11 are remained for examination in Paper-No-6-is-acknowledged.

Priority

2. Acknowledgment is made of applicant's claim for foreign priority base on an application No. 2001-063491 filed in Japan on March 7, 2003.

It is noted that Applicants have filled a certified copy of said application as required by U.S.C 119, which papers have been placed of record in the file.

Information Disclosure Statement

3. Information Disclosure Statement (IDS) filed on 03/01/2002 and made of record as Paper No. 2. The references cited on the PTOL 1449 form have been considered.

Drawings

4. Figures 17-19 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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Claims 1 and 5-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The limitation " a predetermined ordinal numbers" and " a predetermined

-spacing"-in-claim-1,-line-10-and-line-11,-page-52,-are-vague-and-indefinite.-It-is-unclear

which ordinal number and spacing are predetermined.

The limitation "a predetermined ordinal numbers" in claim 5, line 7, page 53, is vague and indefinite. It is unclear which ordinal number is predetermined.

The limitation " a predetermined wiring layer" in claim 8, line 6, page 55, is vague and indefinite. It is unclear which wiring layer is predetermined.

The limitation " a predetermined position" in claim 9, line 4 and in claim 10, line 4, pages 56-57, are vague and indefinite. It is unclear which position is predetermined.

Claims 6, 7 and 11 are rejected since they depend on rejected base claims.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 2 and 3 are rejected under 35 U.S.C. 102(e) as being anticipated by Applicants' Admitted Prior Art.

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Regarding claim 2, Applicants' Admitted Prior Art., teaches a wiring method for placing interconnection lines in parallel two-dimensionally or three-dimensionally in a layout design of a semiconductor integrated circuit, wherein a signal change frequency at which a signal propagating through an interconnection line changes per unit time is determined for each of the plurality of interconnection line by estimation or simulation, and the plurality of interconnection line are placed based on the signal change frequency so that interconnection line 10 having the high signal change frequency and interconnection line 20 having the low signal change frequency are adjacent to each other (see pages 1-4 and Figs. 17-19).

Regarding claim 3, Applicants' Admitted Prior Art., teaches the plurality of interconnection line are placed based on the signal change frequency, irrespective of an ascending or descending order of the bit (see pages 1-4 and Figs. 17-19).

Allowable Subject Matter

8. Claim 4 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Claim 4 is allowable over the prior art of record because none of the prior art whether taken singularly or in combination, especially when these limitations are considered within the specific combination claim, to teach interconnection line having the high signal change frequency are sandwiched by interconnection line having the low signal change frequency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc Hoang whose telephone number is (703) 306-5795. The examiner can normally be reached on Monday-Friday from 8.00 AM to 5.00 PM.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (703) 308-4910. The fax phone numbers of the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

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Quoc Hoang

Patent examiner/AU 2818.

HOAI HO PRIMARY EXAMINER